# Okan Bursa

25.06.1983
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## Education

**2009–2019**  **PhD, Computer Engineering**, *Department of Computer Engineering, Ege University Graduate School of Natural and Applied Science, Ege University*, Izmir, Turkey.
GPA : 90/100

**Finding Semantic Similarity in Social Networks by Using Preference Management and Profiling**.

**2005–2008**  **Master of Science, Computer Engineering**, *Department of Computer Engineering, Ege University Graduate School of Natural and Applied Science, Ege University*, Izmir, Turkey.
GPA : 86,57/100

**Semantic Web Portal Technologies and Applications: Using of the semantic web technologies in web portals, constructing and implementing a semantic web portal architecture**.

**2001–2005**  **Bachelor, Computer Engineering**, *Department of Computer Engineering, Istanbul Technical University*, Istanbul, Turkey.
GPA : 2,41/100

**Graduation Project : Intrusion Detection on Servers by using Articial Neural Networks**.

**1998–2001**  **High School**, *High School of Science, Izmir Turk College*, Izmir, Turkey.
GPA : 4,71/5.00, Highest Score of College in 2001 National University Exams : 183,813, National Ranking : 1081.

## PhD Thesis

Title  Finding Semantic Similarity in Social Networks by Using Preference Management and Profiling

Supervisor  Assoc. Prof. Murat Osman ÜNALIR

Abstract  A new method to find semantic similarities among people is introduced by modeling the behaviors of people in social networks within preferences. In order to apply this method in social networks, an ontology-based entity semantification method that provides matching of personal preferences with entities in ontologies has been defined. The success of this method is tested with similar works in literature and it is concluded that our method gave the best results. As a result of semantification, an integrated ontology dataset was created in which personal preferences are represented as entities inside ontologies and stored in personal profiles. Social semantic similarity method is applied to selected samples of this dataset. The success of the method was tested by simple similarity obtained by using non-semantic data and page similarity obtained by using semi-structural data.

## Publications

Okan Bursa, Özgü Can, Emine Sezer, and Murat Osman Ünalır. Enriching preferences using dbpedia and wordnet. In *Research Conference on Metadata and Semantics Research*, pages 94–103. Springer, 2016.

Okan Bursa, Özgü Can, and Murat Osman Ünalir. User profiling for policy management in social communities. In *COMPSAC*, pages 348–349, 2012.

Okan Bursa, Emine Sezer, Ozgu Can, and Murat Osman Unalir. Using foaf for interoperable and privacy protected healthcare information systems. In *Research Conference on Metadata and Semantics Research*, pages 154–161. Springer, 2014.

Okan Bursa, Emine Sezer, Ozgü Can, and Murat Osman Unalir. Blood. health. foaf: Extending foaf with blood ontology. In *2017 IEEE 41st Annual Computer Software and Applications Conference (COMPSAC)*, volume 2, pages 102–106. IEEE, 2017.

Okan Bursa and Murat Osman Unalir. Semantic web technologies and applications. *National Software Engineering Symposium*, 2007.

Okan Bursa and Murat Osman Unalir. Profile management inside semantic web portals. *National Software Quality and Software Development Tools Symposium*, 2008.

Okan Bursa and Murat Osman Ünalır. Sosyal ağlar ve profil yönetimine etkileri. *Yayınlamamış Bildiri, Akademik Bilişimin Farklı Boyutları, Muğla Üniversitesi, Muğla*, 2010.

Özgü CAN, Okan BURSA, and Murat Osman ÜNALIR. Personalizable ontology based access control. *Gazi University Journal of Science*, 23(4):465–474, 2010.

Ozgu Can, Emine Sezer, Okan Bursa, and Murat Osman Unalir. Personalized vaccination using ontology based profiling. In *Research Conference on Metadata and Semantic Research*, pages 213–224. Springer, 2013.

Ozgu Can, Emine Sezer, Okan Bursa, and Murat Osman Ünalir. Nesnelerin interneti ve güvenli bir sağlık bilgi modeli önerisi. In *4th International Symposium on Innovative Technologies in Engineering and Science (ISITES2016) 3-5 Nov 2016 Alanya/Antalya-Turkey*, 2016.

Ozgu Can, Emine Sezer, Okan Bursa, and Murat Osman Unalir. Comparing relational and ontological triple stores in healthcare domain. *Entropy*, 19(1):30, 2017.

Ozgu Can, Murat Osman Unalir, Emine Sezer, Okan Bursa, and Batuhan Erdogdu. An ontology based approach for host intrusion detection systems. In *Research Conference on Metadata and Semantics Research*, pages 80–86. Springer, 2017.

Özgü Can, Murat Osman Ünallır, Emine Sezer, Okan Bursa, and Batuhan Erdoğdu. A semantic web enabled host intrusion detection system. *International Journal of Metadata, Semantics and Ontologies*, 13(1):68–74, 2018.

Emine Sezer, Özgü Can, Okan Bursa, and Murat Osman Ünalır. Sağlık bilgi sistemlerinde ontoloji tabanlı bir yaklaşım: Kan testi ontolojisi örneği. *Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi*, 22(5):367–375, 2016.

Emine Sezer, Özgü Can, Murat Osman Ünalir, and Okan Bursa. An ontology-based integration approach for medical information standards. In *2017 25th Signal Processing and Communications Applications Conference (SIU)*, pages 1–4. IEEE, 2017.

Dilek Tapucu, Özgü Can, Okan Bursa, and Murat Osman Ünalır. Metamodeling approach to preference management in the semantic web. 2008.

Murat Osman Ünalir, Özgü Can, Emine Sezer, Okan Bursa, and Handan Ak. Big data aware diabetes management: Requirements, solutions and reviews. In *2017 International Artificial Intelligence and Data Processing Symposium (IDAP)*, pages 1–6. IEEE, 2017.

## Experience

### Vocational

December 2005–current
**Research Assistant**, *Department of Computer Engineering, Faculty of Engineering, Ege University*, Izmir, Turkey.

Assistant of Digital Electronics Course, 2006-current
Assistant of Electrical Circuits Course, 2006-current
Assistant of Embedded Systems Course, 2012
Assistant of Logic Circuits Course, 2013, 2015, 2017, 2018
Assistant of Microcontroller-Based System Design Course, 2017-current
Assistant of Digital Computer Design Course, 2013-current
Assistant of Microcontroller Course, 2006-current
Assistant of Database Management Course, 2014, 2016, 2017, 2018
Assistant of Ontology Engineering Course, 2013, 2014, 2016
Assistant of Windows Programming Course, 2015, 2016
Assistant of Algorithms & Programming Course, 2015, 2016
Assistant and Instructor of PHP Programming Course, 2012-2015
Assistant and Instructor of Internet Programming Course, 2012-2015

2005 Sep–Dec
**Web Programmer**, *Netport IT Services Co.*, Izmir, Turkey.
Developing web pages and admin panels with ASP.NET 2.0 and C# with SQL 2005

2003–2004
**Server Admin**, *Istanbul Technical University Radio*, Istanbul, Turkey.
Web Server and Voice Streaming Maintenance and Admin inside University Radio using Microsoft Server 2003

### Internships

2005 Jun–Aug
**Mobile Application Developer**, *Bosch Siemens Home Appliances Ltd.*, Istanbul, Turkey.
Web,Desktop and Mobile Applications Development with C#, V.Basic and SQL 2005

2003 Jul–Aug
**Computer Engineer**, *Turkish National Television*, Izmir, Turkey.
Constructing of the uplink project of HD television transmission

2003 Jun–Jul
**Web Admin**, *IT Research Center, Ege University*, Izmir, Turkey.
Developing web pages with HTML, Computer and Server Maintenance and Web Server Conguration with IPTables

### Projects

2018-2020
**Development of a Privacy Framework for Ontology-Based Data Access**, *Ege University Scientific Research Project*, Izmir, Turkey.
Researcher

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|---|---|
| 2016-2019 | **Development of Personalized Internet of Things Platform for Healthcare Domain**, *Ege University Scientific Research Project*, Izmir, Turkey. <br> Researcher |
| 2016-2019 | **Diabetes Management Platform: Developing a Big data Aware Multi-Partner and Collaborative Data Management Infrastructure**, *Ege University Scientific Research Project*, Izmir, Turkey. <br> Researcher |
| 2013-2015 | **Performance Comparison of Ontology Dataware Houses** , *Ege University Scientific Research Project*, Izmir, Turkey. <br> Researcher |
| 2014-2016 | **Blood Ontology Development for Personalized Healthcare Data in Healthcare Information Systems**, *Ege University Scientific Research Project*, Izmir, Turkey. <br> Researcher |
| 2012-2014 | **Preference-Based Personalized Recommendation System Development**, *Ege University Scientific Research Project*, Izmir, Turkey. <br> Researcher |
| 2010-2012 | **Semantic Web Technologies Based Vaccine Information System** , *Ege University Scientific Research Project*, Izmir, Turkey. <br> Researcher |

## Attended Scientific Meetings

| | |
|---|---|
| July 2017 | **The 12th IEEE International COMPSAC Workshop on E-Health Systems and Semantic Web**, Turin, Italy. <br> Oral Presentation |
| Februrary 2017 | **Akademik Bilişim 2017**, Aksaray, Turkey. <br> Oral Presentation |
| November 2016 | **10th International Conference on Metadata and Semantics Research**, Göttingen, Germany. <br> Oral Presentation |
| February 2015 | **Akademik Bilişim 2015**, Eskişehir, Turkey. <br> Oral Presentation |
| November 2014 | **8th International Conference on Metadata and Semantics Research**, Karlsruhe, Germany. <br> Oral Presentation |
| July 2012 | **36th Annual IEEE International Computer Software and Applications Conference (COMPSAC)**, Izmir, Turkey. <br> Oral Presentation |

## Invited Congress and Symposium Activities

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|---|---|
| 2017 | **COMPSAC 2017**, *Session Moderator*, Turin, Italy. |

## Citations

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|---|---|
| Total Citations (WOS) | 14 |
| h-Index (WOS) | 3 |

# Computer skills

## Operating Systems

All Microsoft Operating Systems, Ubuntu, MacOSX

## Programming Languages

| | | |
|---|---|---|
| Procedural | C, Pascal, QBasic, Fortran | |
| Object-Oriented | Python, C++, Java, C# | XP, SCRUM and Test-Driven Development |
| Logic | LPA-Prolog, CLIPS, SWRL | |
| Web | ASP.NET with .NET 4.5 framework, JSP, PHP | |

## Tools

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|---|---|---|
| Database | Oracle 12g, SQL 2017, Derby, Access, MySQL 8.0, PostgreSQL | |
| Environment | IntelliJ Idea, Eclipse, Microsoft Visual Studio, Zend | |
| Ontology Development | Altova, Protege | |
| Ontology Manipulation | Apache Jena 3.1.0, Jess, SESAME API, OWL API | Online Repository Development, Query with SPARQL and Semantic Web Portal Development |
| Data Warehouses | Allegrograph 6.5, ORACLE 12g | |

# Obligations

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| Military Obligation | Completed between 4.2010 and 10.2010 as private |

# Languages

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|---|---|---|
| Turkish | Native | |
| English | Near-Excellent | *TOEFL IBT : 84/120, Reading:17/30,Listening:26/30,Speaking:17/30,Writing:24/30.* |
| German | Beginner | |